



PTO/SB/08A (08-03)

Approved for use through 7/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	2	63611A	3
-------	---	--------	---

**Complete if Known**

Application Number	10/589,996
Filing Date	August 18, 2006
First Names Inventor	Henley et al.
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	63611A

## FOREIGN PATENT DOCUMENTS

[illegible]Examiner  
SignatureDate  
Considered

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP609. Draw line through citation if not in conformance and not considering. Include office of this form with next communication to applicant. \*Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at [www.uspto.gov/pep/01.04/](http://www.uspto.gov/pep/01.04/) or MPEP 901.04. \*Endorse Office that issued the document, by the two-letter code (WIPO Standard ST.3). \*Form Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \*Kind of document by the appropriate symbols as indicated on the document under: WIPO Standard ST.16 if possible. \*Applicant to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is in file (and by the USPTO to process) an application that confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering and preparing and submitting the complete application form to the USPTO. Time will vary depending on the number of documents and the number of languages in which the documents are submitted. The burden of this collection of information is to be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: [Patents-P, Box 1450, Alexandria, VA 22313-1450](mailto:Patents-P, Box 1450, Alexandria, VA 22313-1450)

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**Complete if Known**

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

(Use as many sheets as necessary)

Sheet | 2

63611A [ :

3

Application Number

10/589.996

Filing Date

August 18, 2006

First Names Inventor

Henley et al

**Art Unit**

Unknown

Examiner Name \_\_\_\_\_

Unknown

Attorney Docket Number

63611A

## FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner  
Signature**

Date \_\_\_\_\_

Considered

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP609. Draw line through citation if not in conformance, and not considered. Include copy of this form with next communication to applicant. \*Applicant's unique citation designation number (optional). \*See Kinds Codes of USPTO Patent Documents at [www.uspto.gov/MPER/901.04](http://www.uspto.gov/MPER/901.04). Enter Office that issued the document, by the two letter code (WIPO Standard ST.16). Enter Japanese patent number, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \*Kind of document by the appropriate symbols as indicated on the form under WIPO Standard ST.16 if possible. \*Applicant to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.96. The information is required to obtain or retain a benefit by the public which is to be used by the USPTO to process an application. This collection is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing and submitting the completed application to the USPTO. The time of the applicant to complete this form is estimated to be 15 minutes. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P. O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08A (08-03)

Approved for use through 7/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**Complete if Known**

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

(Use as many sheets as necessary)

Sheet 3

63611A

3

Application Number	10/589,996
Filing Date	August 16, 2006
First Named Inventor	Henley et al.
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	63611A

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
		G.I. TAYLOR, <i>Journal of Fluid Mechanics</i> , 10, 161-165, (1960).	<input type="checkbox"/>
		AUSILOUS et al, <i>Physics of Fluids</i> , 12(10), 2367-2371 (2001)	<input type="checkbox"/>
		F.P. BRETHERTON, <i>Journal of Fluid Mechanics</i> , 10, 166-188, (1960)	<input type="checkbox"/>
		Kolb, <i>Chemical Engineering Science</i> , 46(9) 2181-2195, (1991)	<input type="checkbox"/>
		THULASIDAS, <i>Chemical Engineering Science</i> 50(2), 183-199, (1995)	<input type="checkbox"/>
		STEGEMAN D, et al., <i>Industrial &amp; Engineering Chemistry Research</i> , 35(2), 378-385 (1996)	<input type="checkbox"/>
		ILIUTA I, THYRION F, et al., <i>Chemical Engineering Science</i> , 51, 4579-4593 (1996)	<input type="checkbox"/>
		KOVALENKO, et al., <i>Journal of Molecular Catalysis A: Chemical</i> , 182-183, 73-80, (2002)	<input type="checkbox"/>
		M. KREUTZER, <i>Hydrodynamics of Taylor Flow in Capillaries and Monolith Reactors</i> , PH.D. Thesis, page 75 and 76, Delft University Press, Netherlands, (2003)	<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>

Examiner Signature	/Susan Hanley/ (07/27/2009)	Date Considered	
--------------------	-----------------------------	-----------------	--

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (option). <sup>2</sup>Applicant is to place a check mark here in English language Translation is attached.

This collection of information is required 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P. O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /S.H./